

BIOGRAPHICAL SKETCH

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NAME Eric Glasgow		POSITION TITLE Assistant Professor	
eRA COMMONS USER NAME			
EDUCATION/TRAINING <i>(Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)</i>			
INSTITUTION AND LOCATION	DEGREE <i>(if applicable)</i>	YEAR(s)	FIELD OF STUDY
State University of California, Northridge, CA	B.S.	1983	Chemistry
State University of New York, Stony Brook, NY	Ph. D.	1992	Molecular Biology
National Res. Council Assoc., NICHD, Bethesda, MD		1993-1997	Developmental Biology
Post-Doctoral Fellow, NINDS, Bethesda, MD		1997-2000	Neuroscience

A. Positions and Honors.**Positions and Employment**

1992 – 1993 Post-Doctoral Associate, State University of New York at Stony Brook, Stony Brook, NY
 1993 – 1997 National Research Council Associate, NICHD, NIH, Bethesda, MD
 1997 – 2000 Post-Doctoral Fellow, NINDS, NIH, Bethesda, MD
 2000 – 2004 Assistant Professor, Dept. of Neurobiology, NEOUCOM, Rootstown, OH
 2004 – present Assistant Professor, Dept. of Medicine, Georgetown University Medical Center

Honors

1993 – 1997 National Research Council Associate, National Academy of Sciences, Washington, D.C.
 1997- 2000 Intramural Research Training Award, National Institute of Health, Bethesda, MD

B. Selected peer-reviewed publications (in chronological order).

- Giordano, S., Glasgow, E., Tesser, P., and Schechter, N. A type II keratin is expressed in glial cells of the goldfish visual pathway. *Neuron* 2, 1507-1516. (1989).
- Giordano, S., Hall, C., Quitschke, W., Glasgow, E., and Schechter, N. Keratin 8 of simple epithelia is expressed in glia of the goldfish nervous system. *Differentiation* 44, 163-172. (1990).
- Glasgow, E., Druger, R. K., Levine, E. M., Fuchs, C., and Schechter, N. Plasticin, a novel type III neurofilament protein from goldfish retina: increased expression during optic nerve regeneration. *Neuron* 9, 373-381. (1992).
- Druger, R. K., Levine, E. M., Glasgow, E., Jones, P. S., and Schechter, N. Cloning of a type I keratin from goldfish optic nerve: differential expression of keratins during regeneration. *Differentiation* 52, 33-43. (1993).
- Druger, R. K., Glasgow, E., Fuchs, C., Levine, E. M., Matthews, J. P., Park, C. -Y., and Schechter, N. Complex expression of keratins in goldfish optic nerve. *J. Comp. Neurol.* 340, 269-280. (1994).
- Glasgow, E., Druger, R. K., Fuchs, C., Lane, W. S., and Schechter, N. Molecular cloning of gefiltin (ON1): serial expression of two new neurofilament mRNAs during optic nerve regeneration. *EMBO J.* 13, 297-305. (1994).

7. Fuchs, C., Druger, R. K., Glasgow, E., and Schechter, N. Differential expression of keratins in goldfish optic nerve during regeneration. *J. Comp. Neurol.* **343**, 332-340. (1994).
8. Glasgow, E., Hall, C. M., and Schechter, N. Organization, sequence, and expression of a gene encoding goldfish neurofilament medium protein. *J. Neurochem.* **63**, 52-61. (1994).
9. Glasgow, E., Druger, R. K., Fuchs, C., Levine, E. M., Giordano, S., and Schechter, N. Cloning of multiple forms of goldfish vimentin: differential expression in CNS. *J. Neurochem.* **63**, 470-481. (1994).
10. Levine, E. M., Hitchcock, P. F., Glasgow, E., and Schechter, N. Restricted expression of a new paired-class homeobox gene in normal and regenerating adult goldfish retina. *J. Comp. Neurol.* **348**, 596-606. (1994).
11. Fuchs, C., Glasgow, E., Hitchcock, P. F., and Schechter, N. Plasticin, a newly identified neurofilament protein, is preferentially expressed in young retinal ganglion cells of adult goldfish. *J. Comp. Neurol.* **350**, 452-462. (1994).
12. Appel, B., Korzh, V., Glasgow, E., Thor, S., Edlund, T., Dawid, I. B., and Eisen, J. S. Motoneuron fate specification and patterned LIM homeobox gene expression in embryonic zebrafish. *Development* **121**, 4117-4125. (1995).
13. Levine, E. M., Passini, M., Hitchcock, P. F., Glasgow, E., and Schechter, N. *Vsx-1* and *Vsx-2*: two Chx10-like homeobox genes expressed in overlapping domains in the adult goldfish retina. *J. Comp. Neurol.* **387**, 439-448. (1997).
14. Glasgow, E., Karavanov, A. A., and Dawid, I. B. Neuronal and neuroendocrine expression of *lim3*, a LIM class homeobox gene, is altered in zebrafish mutants with axial signaling defects. *Dev. Biol.* **192**, 405-419. (1997).
15. Cangor, A. K., Passini, M. A., Asch, W. S., Leake, D., Zafonte, B.T., Glasgow, E., and Schechter, N. Restricted expression of the neuronal intermediate filament protein plasticin during zebrafish development. *J. Comp. Neurol.* **399**, 561-572. (1998).
16. Glasgow, E. and Tomarev, S. I. Restricted expression of the homeobox gene *prox 1* in developing zebrafish. *Mech. Dev.* **76**, 175-178. (1998).
17. Glasgow, E., Kusano, K., Chin, H., Mezey, E., Young, W.S.III, and Gainer, H. Single cell RT-PCR analysis of rat supraoptic magnocellular neurons: neuropeptide phenotypes and high voltage-gated calcium channel subtypes. *Endocrinology* **140**, 5391-5401. (1999).
18. Glasgow, E., Murase, T., Zhang, B., Verbalis, J.G., and Gainer, H. Gene expression in the rat supraoptic nucleus induced by chronic hyperosmolality versus hypoosmolality. *Am. J. Physiol., Regul. Integr. Comp. Physiol.* **279**, R1239-R1250. (2000).
19. Zhang B., Glasgow, E., Murase, T., Verbalis, J.G., and Gainer, H. Chronic hypoosmolality induces a selective decrease in magnocellular neuron soma and nuclear cell size in the rat hypothalamic supraoptic nucleus. *J. Neuroendocrinology* **13**, 29-36. (2001).
20. Yamashita, M., Glasgow, E., Zhang, B., Kusano, K. and Gainer, H. Identification of cell-specific mRNAs in oxytocinergic and vasopressinergic magnocellular neurons in rat supraoptic nucleus by single-cell differential hybridization. *Endocrinology* **143**, 4464-4476. (2002).
21. Unger, J.L. and Glasgow, E. Expression of Isotocin-Neurophysin mRNA in Developing Zebrafish. *Gene Expression Patterns (Mech. Dev.)* **3**, 105-108. (2003).

Principal Investigator/Program Director (Last, First, Middle): Glasgow, Eric

22. Glasgow, E., Ryu, S.L., Yamashita, M., Zhang, B. Mutsuga, N. and Gainer, H. APeg3, a novel Paternally Expressed Gene 3 antisense RNA transcript is specifically expressed in vasopressinergic magnocellular neurons in the rat supraoptic nucleus. *Molecular Brain Research* 137, 143-151. (2005).

C. Research Support

Research Challenge Funds (5/02-4/03)

State of Ohio

Transgenic Zebrafish Models of Hypothalamic Development and Neuropeptide Gene Expression

The goal for this project was to isolate isotocin and vasotocin genomic clones in order to develop transgenic zebrafish models for studying hypothalamic development and neuropeptide gene expression.

Role: PI

Research Challenge Funds (5/01-4/02)

State of Ohio

Genetic Control of Cell-Specific Neuropeptide Gene Expression

The goal of this project was to characterize the zebrafish hypothalmo-neurohypophysial system (HNS), and to investigate the ability of rodent transgenes to direct cell-specific expression in zebrafish embryos.

Role: PI